Our Established Expertise – Your Advantage
Within its capacity as an innovative development partner, Bosch Engineering offers custom development services that are specially tailored to your requirements.

Our OBD application services range from the interpretation of legislation ensuring the correct function requirements and selection, right the way through calibration to certification.

We are pleased to support you in designing your system and giving you access to special, project-specific solutions in collaboration with our function and system development teams.

For validating the calibration, we perform tests under extreme conditions (in cold/heat and at altitude) and take a number of measures to validate the system (vehicle OBD system test, OBD endurance testing, IUMPR validation).

By developing and drawing on modern processes, methods and tools, we can guarantee that your project will be completed on time and in an efficient manner, to your complete satisfaction.
Our Knowledge – Added Value for You
As part of our development service we offer a project-specific professional analysis of costs for each inquiry, and all agreed work is completed by qualified in-house associates.

We use interdisciplinary project teams made up of associates from specialist groups, meaning we can guarantee not only a high degree of project ownership, but also a very in-depth level of technical expertise.

We would be glad to provide you with a personal consultation.

### Our Service

#### On-Board Diagnostics – Combustion Engine In General
- Engine components: thermostat, temperature sensor, pressure sensor, camshaft position sensor, speed sensor
- Air system: HFM/P-sensor, exhaust-gas recirculation system, charge pressure system, crankcase ventilation
- Fuel system: low-pressure and high-pressure system
- Exhaust system: lambda probes
- Misfire detection
- Cold start emission reduction strategies (CSERS)
- Control unit output stages

#### Onboard Diagnostics – Gasoline-Specific
- Engine components: camshaft adjustment system
- Fuel system: tank tightness, tank bleeder valve
- Exhaust system: secondary air, three-way catalytic converter
- Air fuel cylinder imbalance (AFIM)

#### Onboard Diagnostics – Diesel-Specific
- Preheating system
- Exhaust system: NOx and particulate sensor; oxidation and NOx-adsorption catalyst, particulate filter, selective catalytic reduction (SCR)

#### Onboard Diagnostics – Electric-/Hybrid-Systems
- Inverter/power electronics/DC-DC converter
- Electric motor
- Battery
- Thermal management

### Tester Communication
- Fault memory management
- Scantool interface

### End-of-Line Testing
- End-of-line check as part of the production process

### Workshop Diagnostics
- High-pressure testing, run-up testing, compression testing, low-pressure testing, pressure control valve hysteresis testing, injection/engine shut-off testing, lambda-based hydrogen observer (LHO)
- Short trips and actuator tests

### Preventive Diagnostics
- Long-term monitoring on a customer-specific basis to avoid secondary damage and/or downtime